

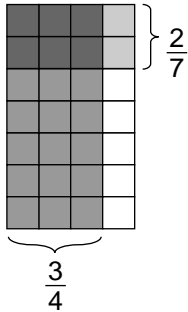
# Multiplying Fractions

R 5-2

Find  $\frac{3}{4} \times \frac{2}{7}$ .

## One Way

Draw a picture. Simplify if possible.



6 of the 28 squares have overlapping shading.

So,  $\frac{3}{4} \times \frac{2}{7} = \frac{6}{28}$ .

Simplify  $\frac{6}{28}$  to  $\frac{3}{14}$ .

## Another Way

Multiply the numerators and denominators. Simplify if possible.

$$\begin{aligned} & \frac{3}{4} \times \frac{2}{7} \\ &= \frac{3 \times 2}{4 \times 7} = \frac{6}{28} \\ &= \frac{3}{14} \end{aligned}$$

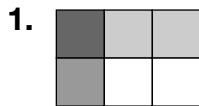
## Simplify First

Find the GCF of any numerator and any denominator.

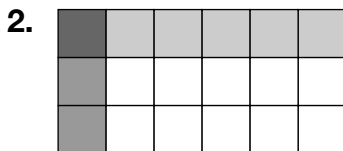
The GCF of 2 and 4 is 2. Divide 2 and 4 by the GCF.

$$\frac{\cancel{3}}{\cancel{4}^2} \times \frac{\cancel{2}^1}{7} = \frac{3}{14}$$

Write an equation for each picture.



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Find each product. Simplify if possible.

3.  $\frac{6}{8} \times \frac{1}{3} =$  \_\_\_\_\_

4.  $\frac{5}{6} \times \frac{7}{10} =$  \_\_\_\_\_

5.  $\frac{4}{5} \times \frac{3}{8} =$  \_\_\_\_\_

6.  $\frac{1}{2} \times \frac{4}{9} =$  \_\_\_\_\_

7. **Number Sense** Can you simplify before multiplying  $14 \times \frac{25}{27}$ ? Explain.

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